



Performance Data Sheet

AKA2425ZXD

General Information

Model	AKA2425ZXD	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	1370	1260	1140	1020	908	795	683
	Watts	523	494	465	436	406	376	345
	Amps	2.39	2.26	2.13	1.99	1.86	1.72	1.58
	Lb/h	25.8	23.8	21.8	19.7	17.7	15.6	13.5
-35	Btu/h	1730	1560	1390	1230	1060	896	733
	Watts	565	541	516	492	467	442	416
	Amps	2.52	2.42	2.31	2.20	2.09	1.98	1.86
	Lb/h	31.8	29.5	27.1	24.6	22.2	19.8	17.3
-30	Btu/h	2140	1920	1700	1480	1260	1040	828
	Watts	605	586	567	547	527	506	485
	Amps	2.66	2.58	2.50	2.41	2.32	2.24	2.15
	Lb/h	38.6	35.8	33.1	30.3	27.5	24.7	21.9
-25	Btu/h	2590	2320	2050	1780	1510	1240	969
	Watts	645	630	616	601	585	570	554
	Amps	2.81	2.75	2.69	2.63	2.57	2.50	2.44
	Lb/h	46.1	43.0	39.9	36.8	33.6	30.5	27.3
-20	Btu/h	3100	2770	2440	2120	1800	1470	1150
	Watts	683	674	664	654	643	633	621
	Amps	2.96	2.92	2.89	2.85	2.81	2.77	2.73
	Lb/h	54.4	51.0	47.5	44.1	40.6	37.1	33.6
-15	Btu/h	3640	3260	2880	2500	2130	1750	1380
	Watts	721	716	711	706	701	695	689
	Amps	3.11	3.10	3.08	3.07	3.06	3.04	3.02
	Lb/h	63.6	59.8	56.1	52.3	48.5	44.6	40.8
-10	Btu/h	4230	3800	3360	2930	2500	2070	1640
	Watts	758	758	758	758	758	757	756
	Amps	3.27	3.28	3.28	3.29	3.30	3.31	3.31
	Lb/h	73.7	69.6	65.5	61.4	57.3	53.1	49.0
-5	Btu/h	4860	4370	3880	3400	2910	2430	1940
	Watts	795	800	805	810	815	819	823
	Amps	3.42	3.45	3.48	3.51	3.54	3.57	3.60
	Lb/h	84.7	80.3	75.9	71.5	67.1	62.6	58.2

0	Btu/h	5530	4980	4440	3900	3360	2820	2280
	Watts	831	842	852	863	872	882	891
	Amps	3.57	3.62	3.68	3.73	3.78	3.83	3.88
	Lb/h	96.7	92.0	87.3	82.6	77.9	73.2	68.4
5	Btu/h	6230	5630	5030	4430	3840	3240	2650
	Watts	868	884	900	915	930	945	959
	Amps	3.72	3.79	3.87	3.94	4.01	4.08	4.16
	Lb/h	110	105	99.8	94.8	89.9	84.9	79.8
10	Btu/h	6970	6310	5660	5000	4350	3700	3050
	Watts	905	927	947	968	988	1010	1030
	Amps	3.86	3.96	4.05	4.15	4.24	4.33	4.42
	Lb/h	124	119	113	108	103	97.7	92.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.884110E+03	7.436901E+02	3.143735E+00	1.339354E+02
C2	2.252437E+02	-8.904840E-01	-4.551183E-03	2.962166E+00
C3	-5.448627E+01	1.079302E+00	5.189284E-03	-4.642855E-01
C4	8.122678E-01	-6.317711E-03	3.375941E-06	1.868129E-02
C5	-1.099673E+00	1.026677E-01	4.345396E-04	-5.805964E-03
C6	-1.602960E-03	7.527795E-04	3.876288E-06	-1.095519E-06
C7	-2.555685E-03	3.104472E-04	-2.192794E-06	6.296178E-05
C8	-1.035911E-03	1.189224E-04	-9.547401E-07	2.595520E-05
C9	-3.166070E-05	3.835803E-06	-2.877133E-08	7.997941E-07
C10	1.981716E-05	-6.760692E-06	-2.404451E-08	-1.691457E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature